

## **AMENDMENTS TO THE DRAWINGS**

Eleven (11) attached sheets of drawings include changes to Figs. 5, 6, 11, 14, 19, 22, 24, 27, 32, 35, and 38. The changes to these Figures are as follows.

Sheet 1 includes Fig. 5 – Please label the ordinate and abscissa of this figure.

Sheet 2 includes Fig. 6 – Please correct the spelling of “Polynomial” and “Determine”

Sheet 3 includes Fig. 11 – Please correct the spelling of “Polynomial” and “Determine”

Sheet 4 includes Fig. 14B – Please correct “does” to -- do --; and “tap” to -- taps --;

Sheet 5 includes Fig. 19B – Please correct “does” to -- do --; and “tap” to -- taps --;

Sheet 6 includes Fig. 22 – Please correct the spelling of “Polynomial” and “Determine”

Sheet 7 includes Fig. 24 – Please correct the spelling of “Polynomial”, “Determine”, and “Determining”;

Sheet 8 includes Fig. 27B – Please correct “does” to -- do --; and “tap” to -- taps --;

Sheet 9 includes Fig. 32B – Please correct “does to -- do --; “transiton” to -- transition --; and “tap” to -- taps --;

Sheet 10 includes Fig. 35 – Please correct the spelling of “Polynomial” and “Determine”;

Sheet 11 includes Fig. 38 – Please correct the spelling of “Polynomial” and “Determine”;

Attachment: Eleven (11) Replacement sheets



NOI PCT-74500

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.1

1

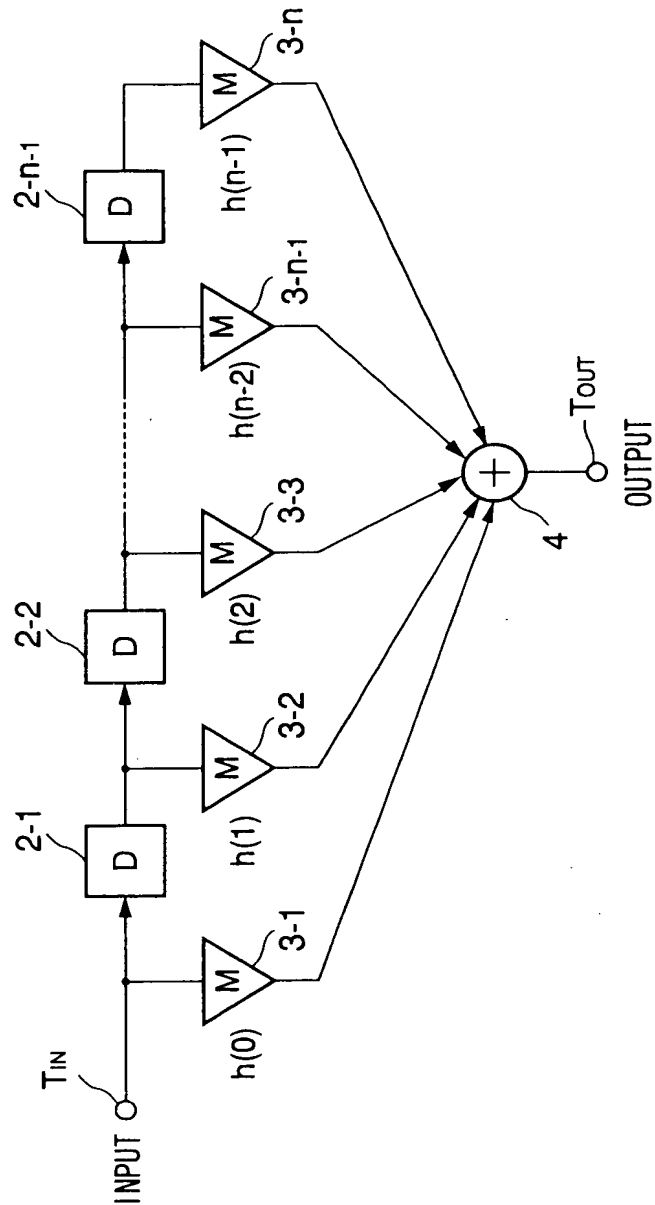


FIG.2A

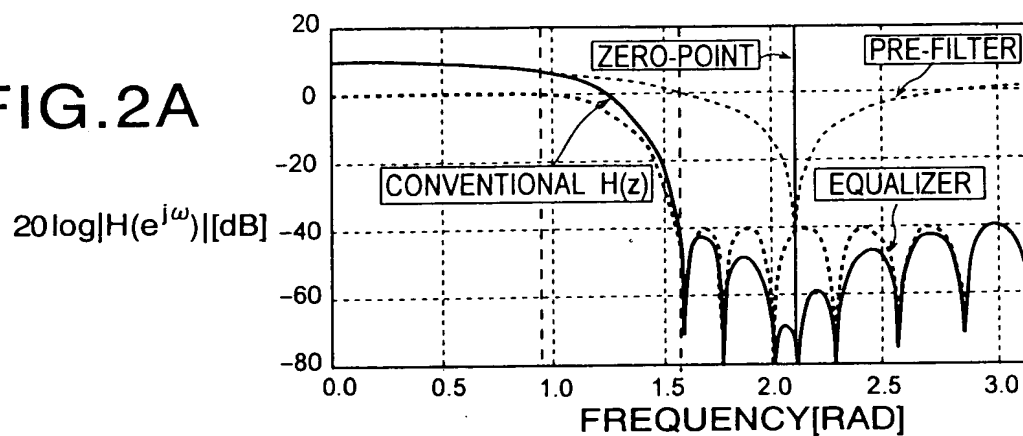


FIG.2B

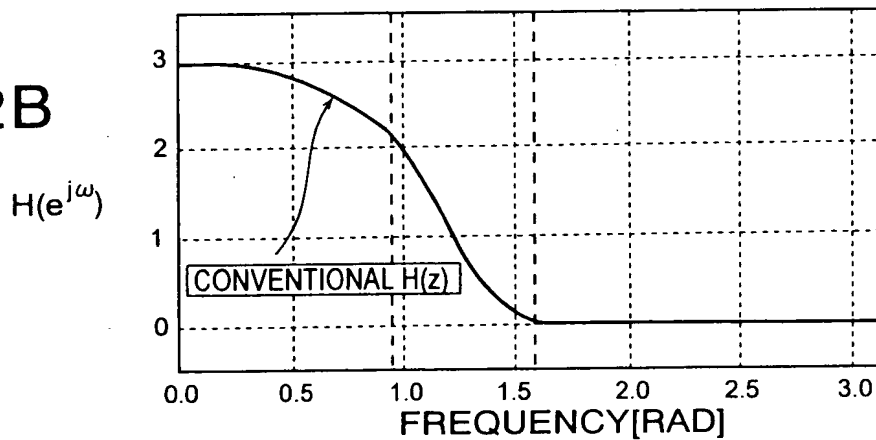
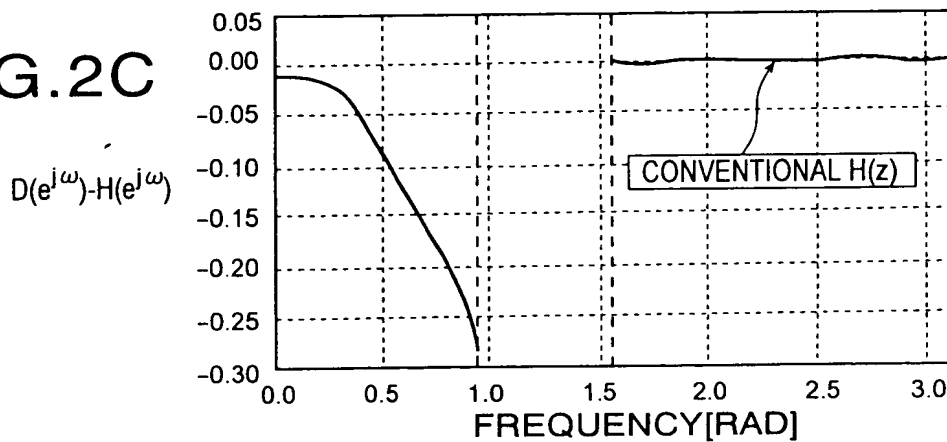


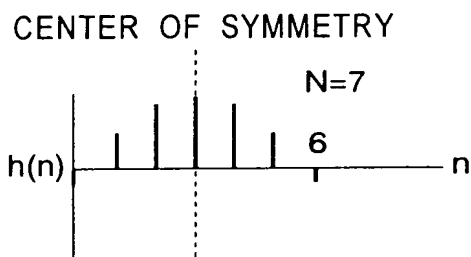
FIG.2C





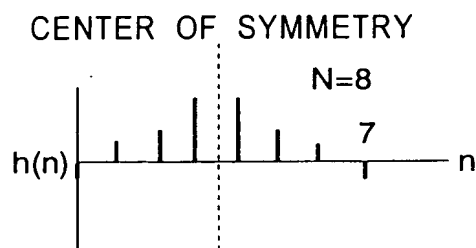
RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.3A



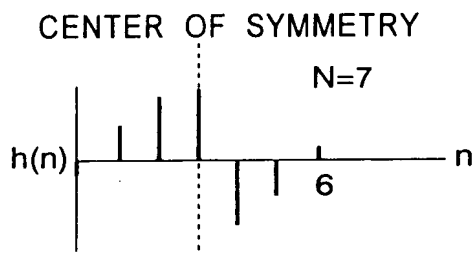
CASE 1: ODD NUMBER TAP,  
EVEN SYMMETRY

FIG.3B



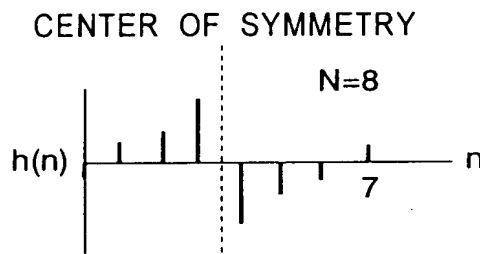
CASE 2: EVEN NUMBER TAP,  
EVEN SYMMETRY

FIG.3C



CASE 3: ODD NUMBER TAP,  
ODD SYMMETRY

FIG.3D



CASE 4: EVEN NUMBER TAP,  
ODD SYMMETRY

FIG.4

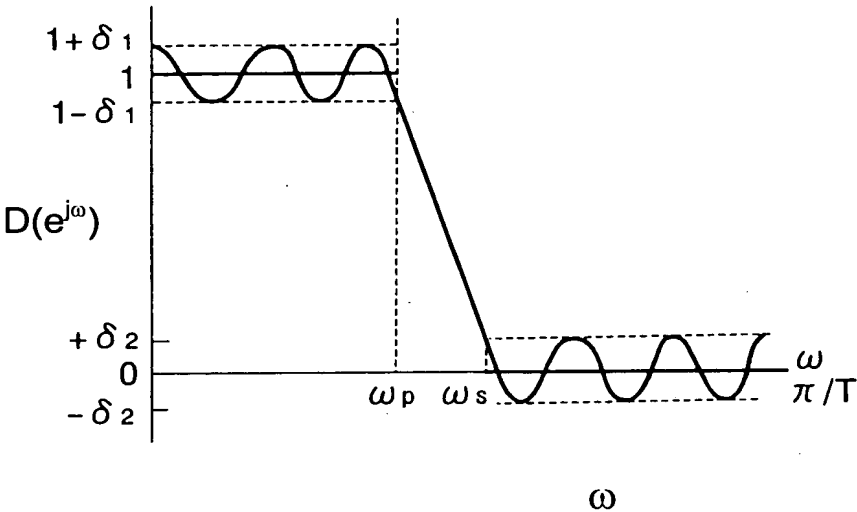
CASE	$Q(e^{j\omega})$	R
1	1	$(L-1)/2+1$
2	$\cos(\omega/2)$	$L/2-1+1$
3	$\sin(\omega)$	$(L-3)/2+1$
4	$\sin(\omega/2)$	$L/2-1+1$



REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.5

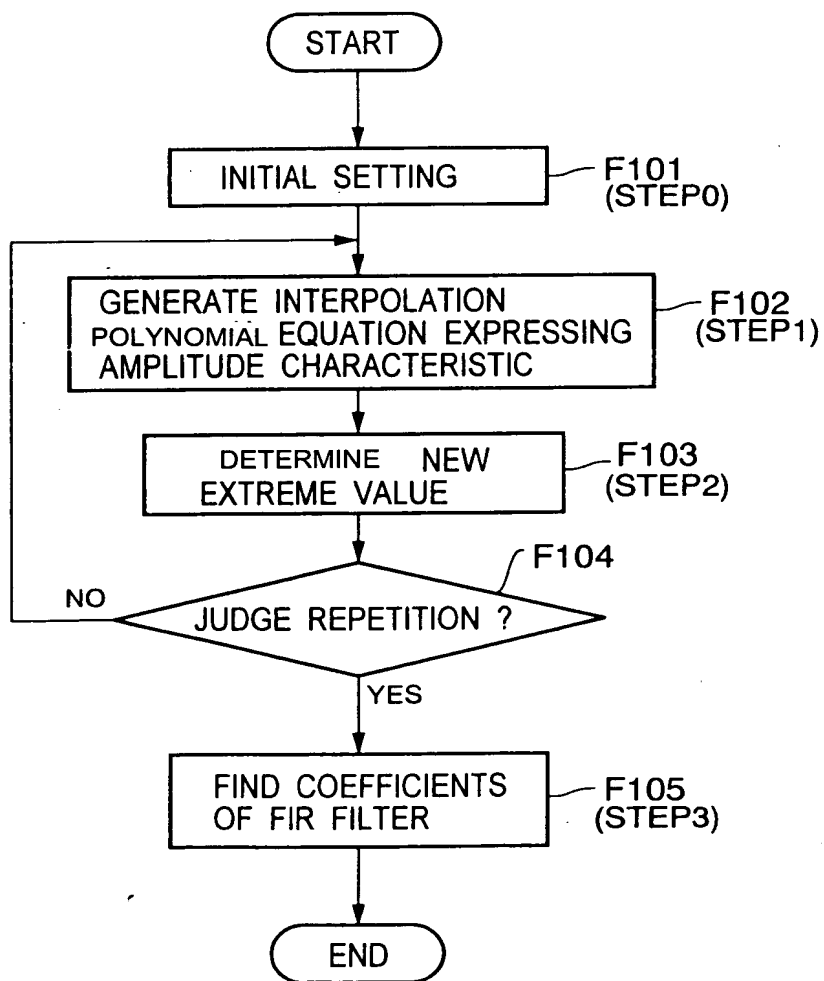




REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.6





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.7A

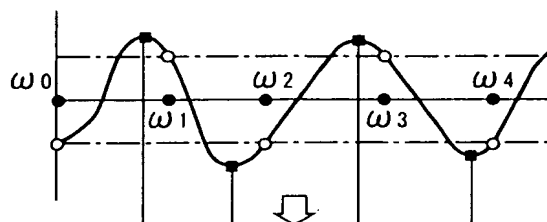


FIG.7B

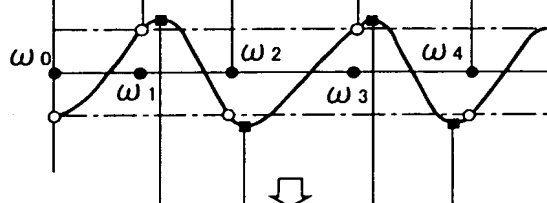


FIG.7C

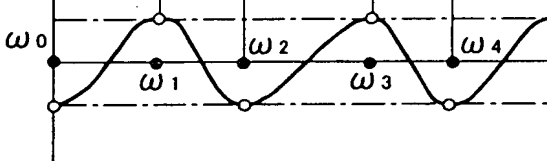
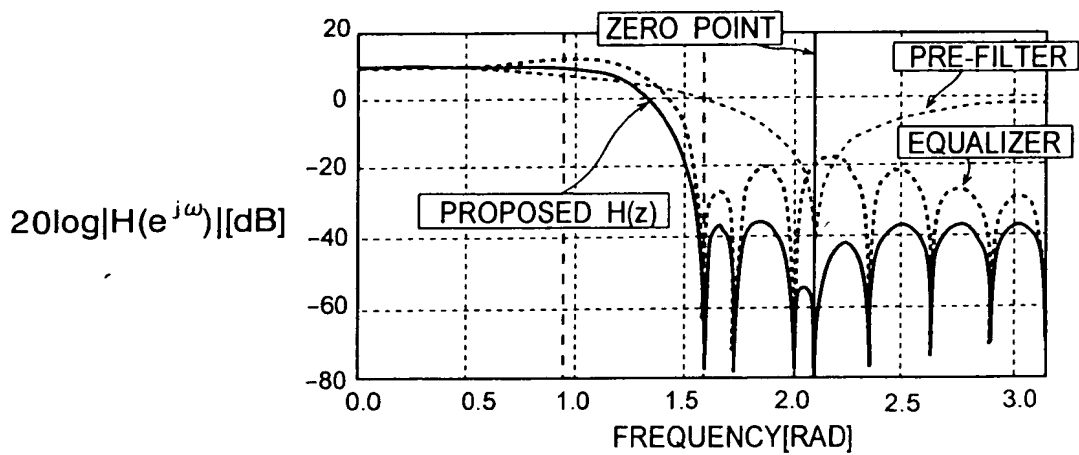


FIG.8





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.9A

$20 \log|H(e^{j\omega})|[\text{dB}]$

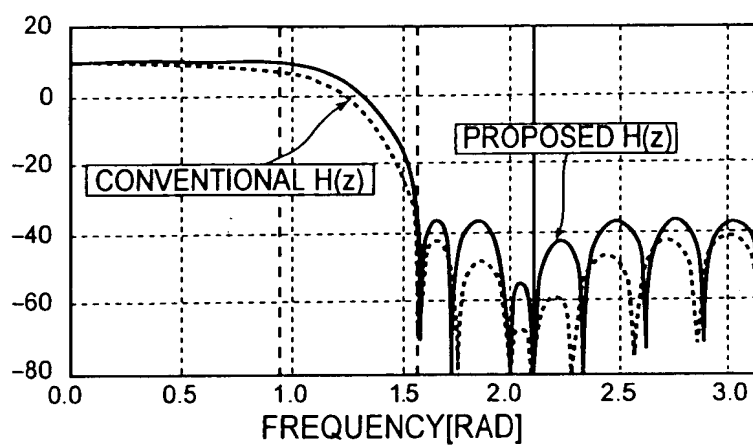
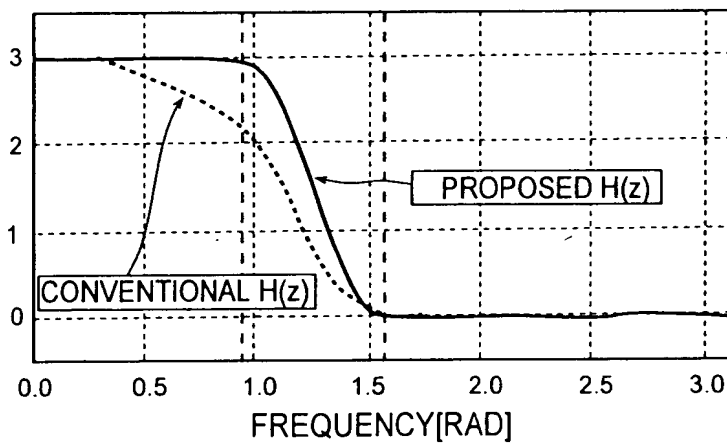


FIG.9B

$H(e^{j\omega})$

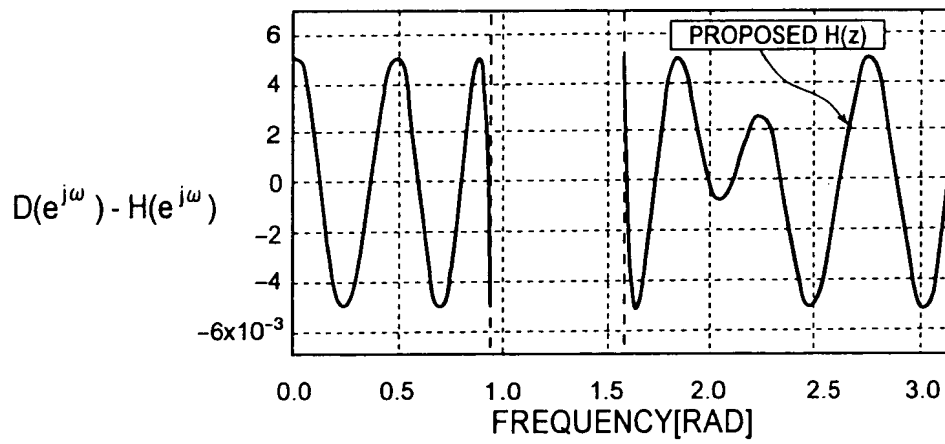






RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.10

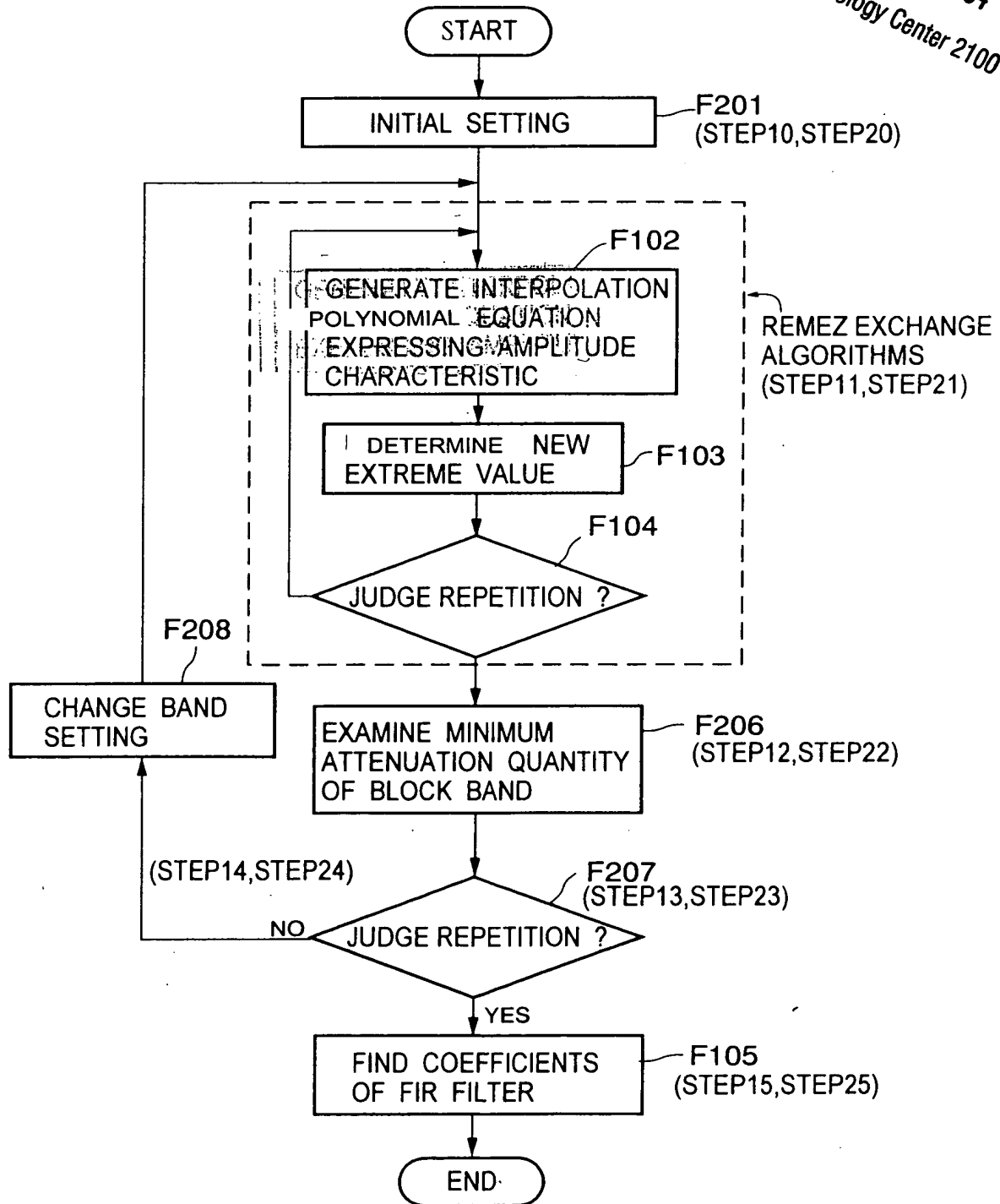




REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.11





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.12

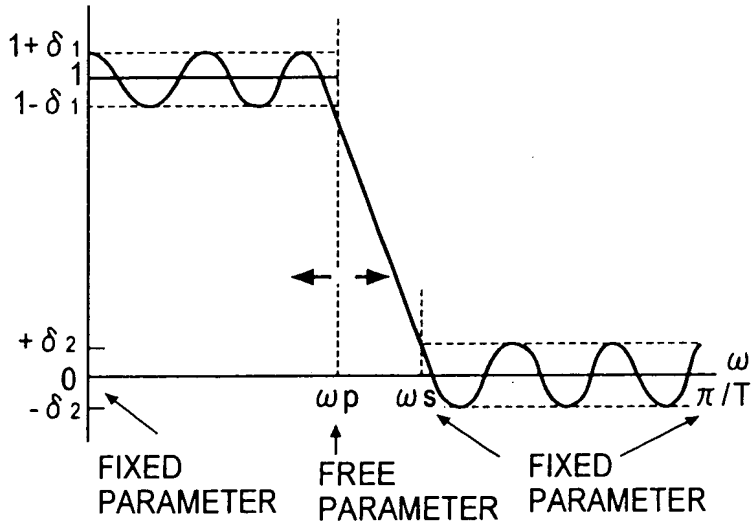
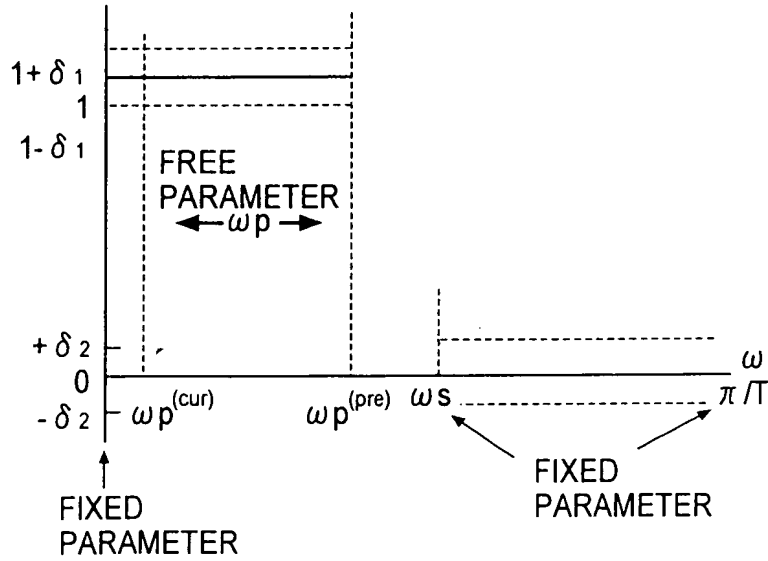


FIG.13





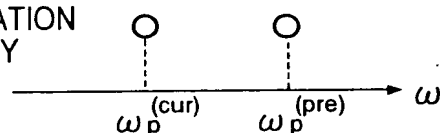
REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.14A

BOTH SATISFY  
→END

DESIGNATED  
ATTENUATION  
QUANTITY

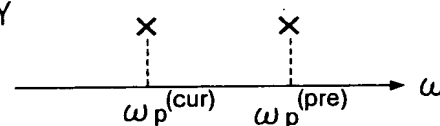


↓  
FREQUENCY WITH LARGE  $\omega_p$   
IS SOLUTION IN THIS CASE  
SOLUTION IS  $\omega_{p(pre)}$

FIG.14B

BOTH DO NOT SATISFY  
→NO SOLUTION→END

DESIGNATED  
ATTENUATION  
QUANTITY

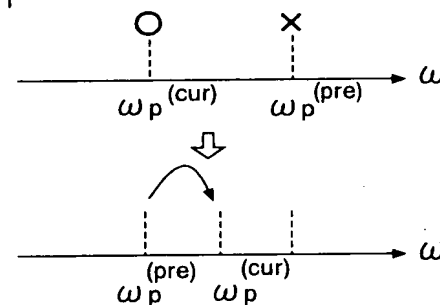


↓  
NO SOLUTION IN THE  
NUMBER OF TAPS IN  
THAT IT DOES NOT  
SATISFY ATTENUATION  
QUANTITY

FIG.14C

ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP

DESIGNATED  
ATTENUATION  
QUANTITY

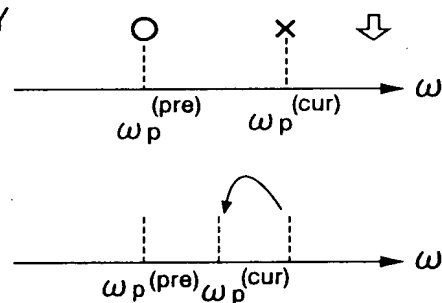




RECEIVED  
NOV 03 2004  
Technology Center 2100

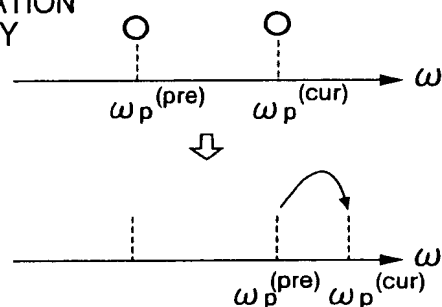
**FIG.15A**  
ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP

DESIGNATED  
ATTENUATION  
QUANTITY



**FIG.15B**  
BOTH SATISFY  
→FOR NEXT STEP

DESIGNATED  
ATTENUATION  
QUANTITY





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.16

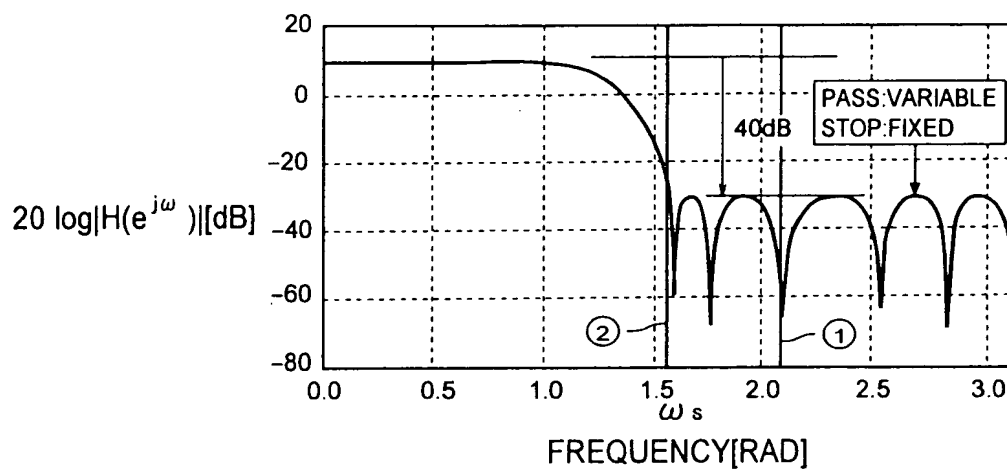




FIG.17

RECEIVED  
NOV 03 2004  
Technology Center 2100

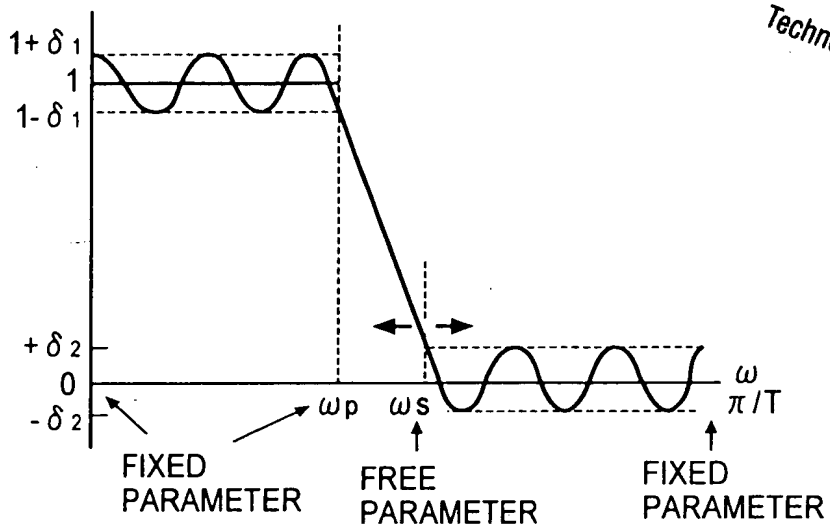
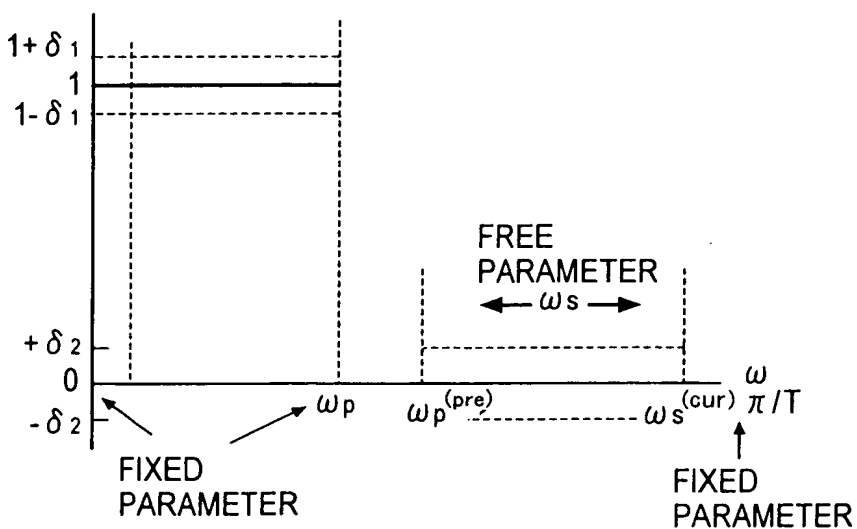


FIG.18



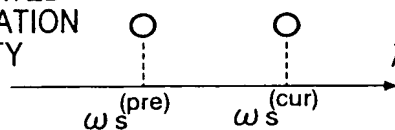


REPLACEMENT

**FIG.19A**

BOTH SATISFY  
→END

DESIGNATED  
ATTENUATION  
QUANTITY



FREQUENCY WITH SMALL  $\omega_s$   
IS SOLUTION IN THIS CASE  
SOLUTION IS  $\omega_s(\text{pre})$

RECEIVED

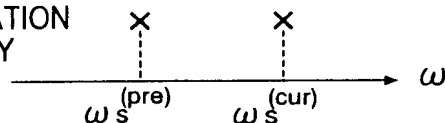
NOV 03 2004

Technology Center 2100

**FIG.19B**

BOTH DO NOT SATISFY  
→NO SOLUTION→END

DESIGNATED  
ATTENUATION  
QUANTITY

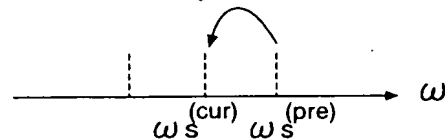
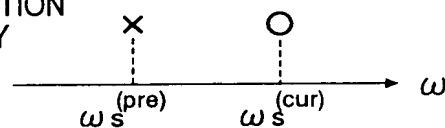


NO SOLUTION IN THE  
NUMBER OF TAPS IN  
THAT IT DOES NOT  
SATISFY ATTENUATION  
QUANTITY

**FIG.19C**

ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP,

DESIGNATED  
ATTENUATION  
QUANTITY







RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.20A

ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP

DESIGNATED  
ATTENUATION  
QUANTITY

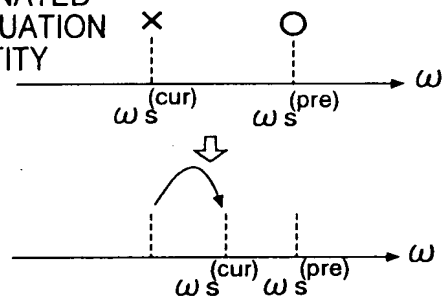
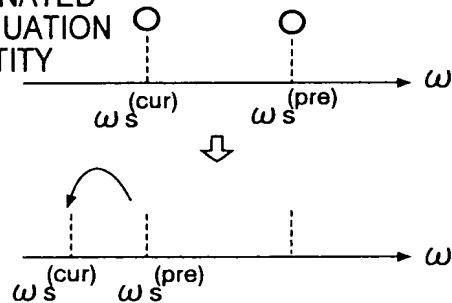


FIG.20B

BOTH SATISFY  
→FOR NEXT STEP

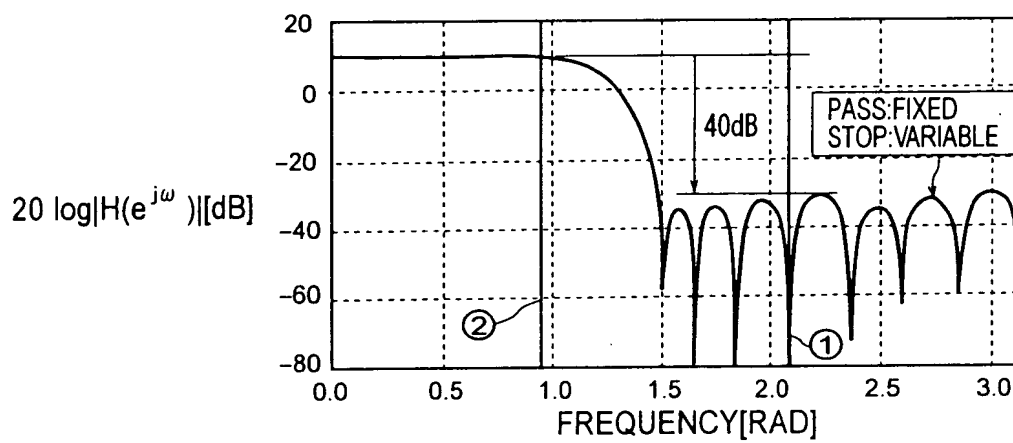
DESIGNATED  
ATTENUATION  
QUANTITY





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.21



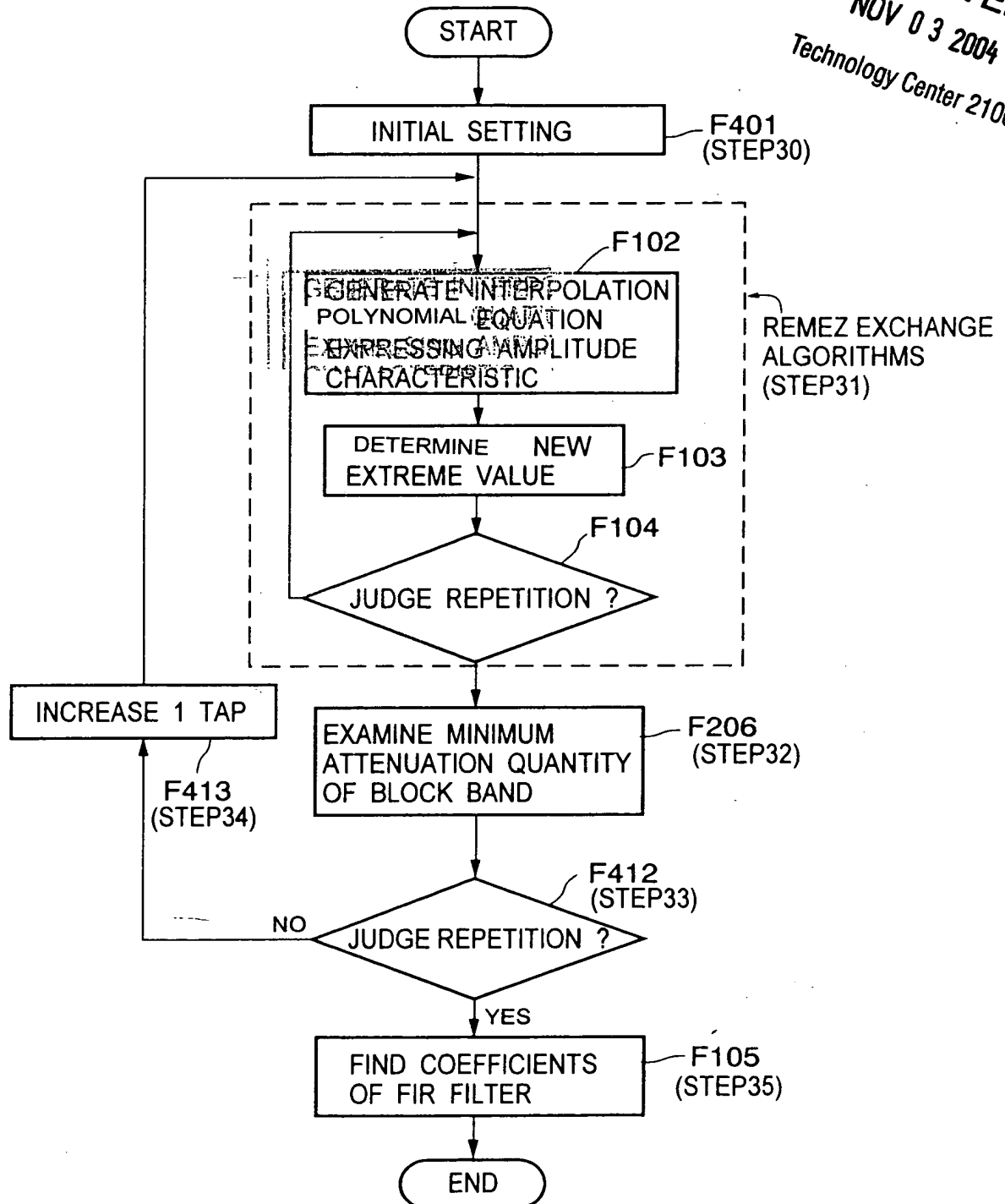


REPLACEMENT

RECEIVED  
NOV 03 2004

Technology Center 2100

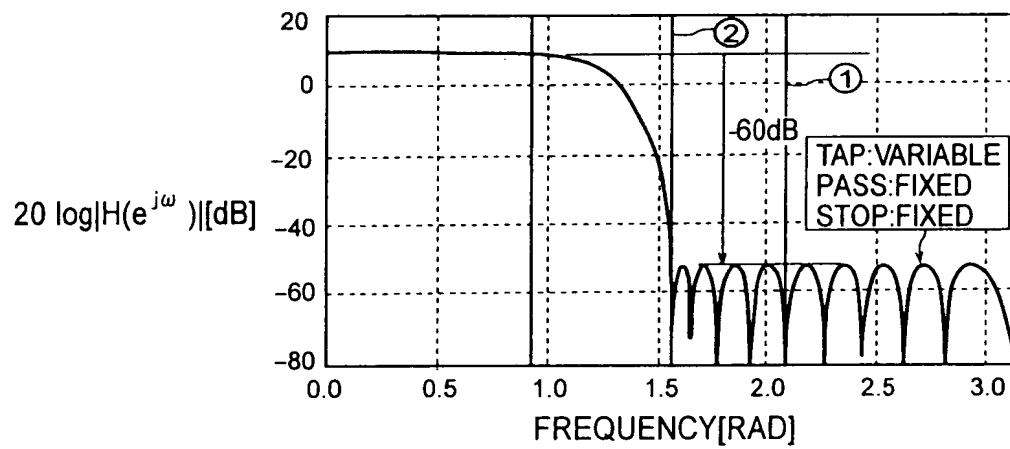
FIG.22





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.23

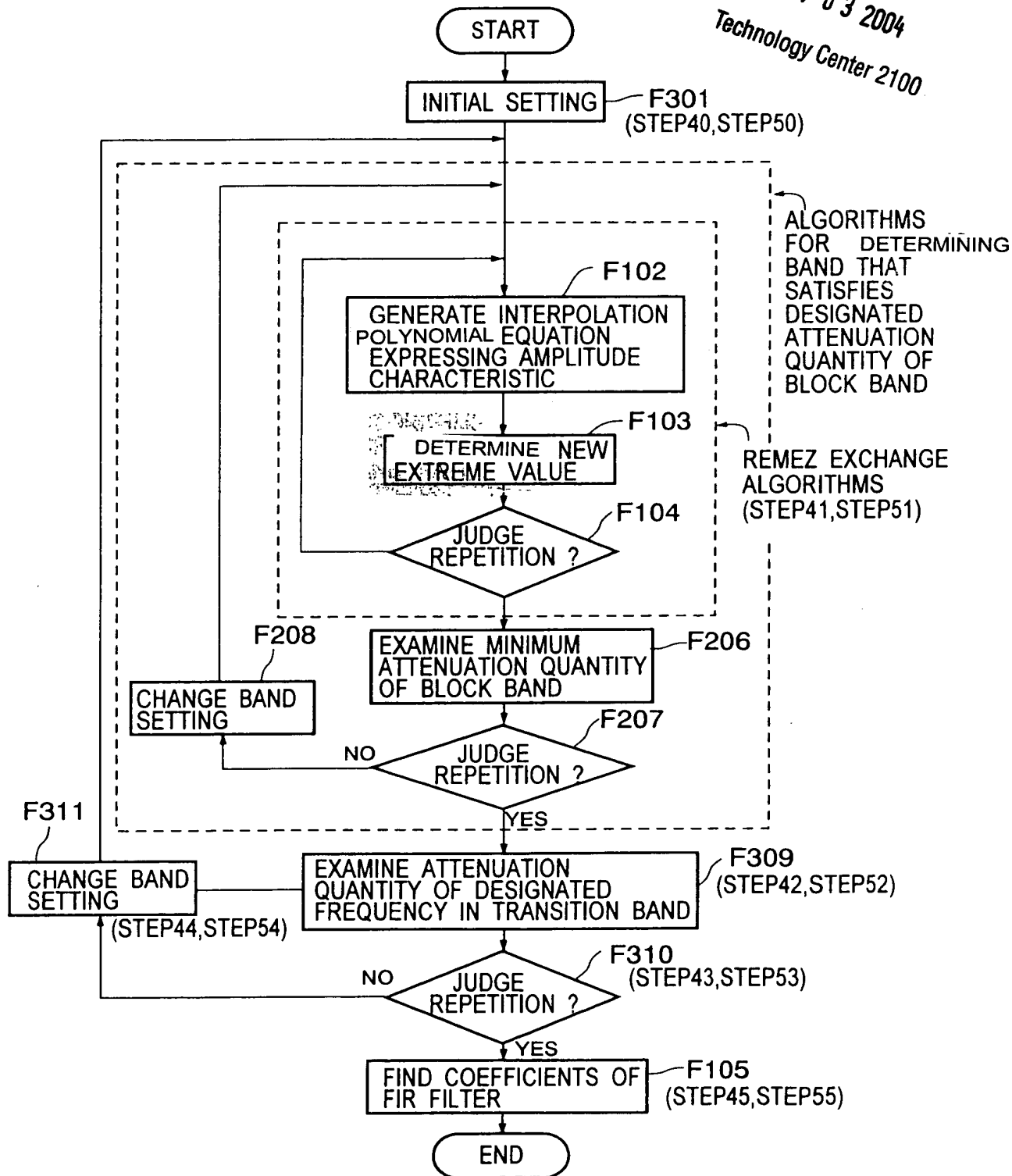




REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.24





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.25

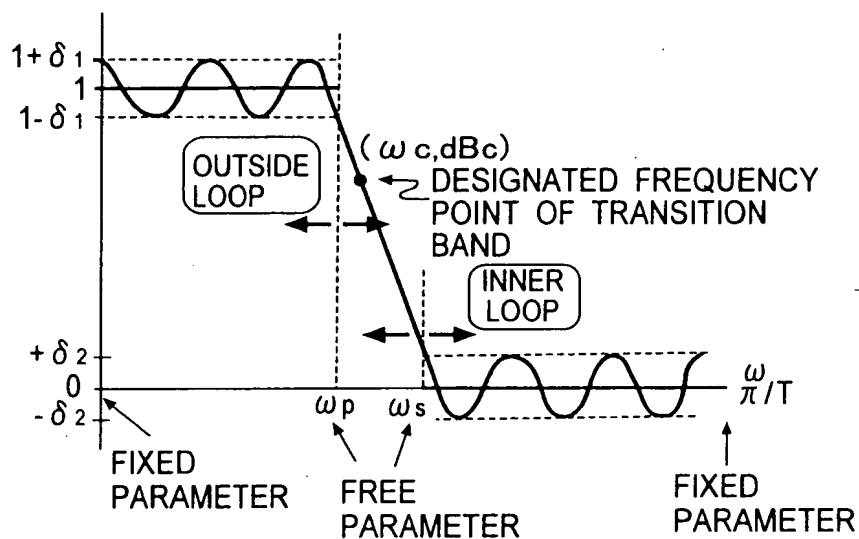
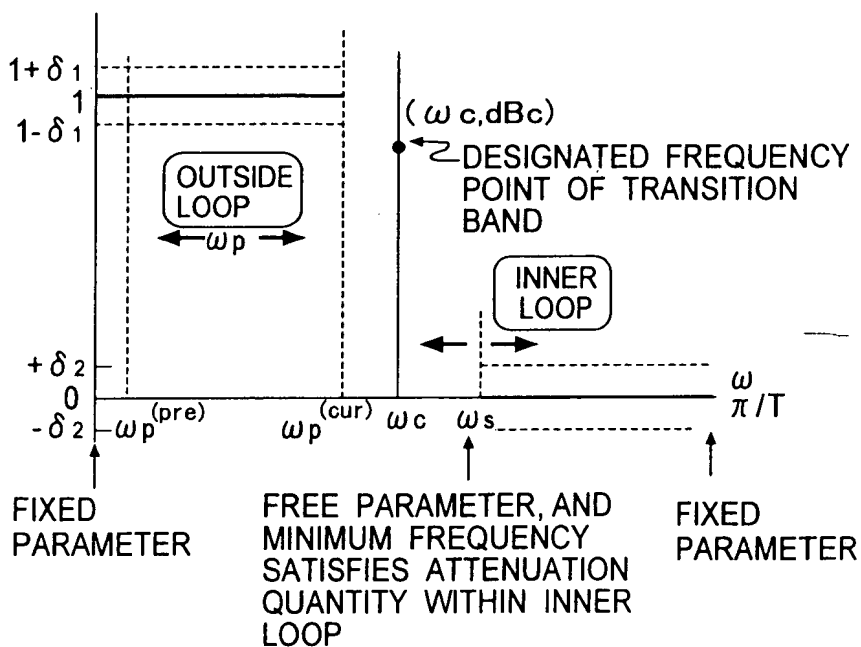


FIG.26



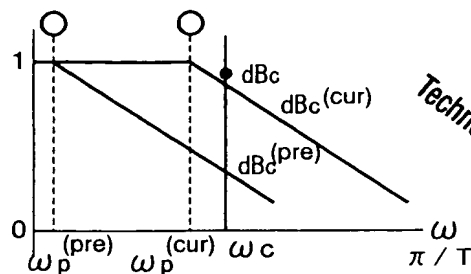


REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.27A

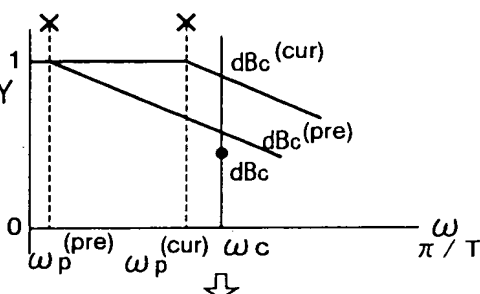
BOTH SATISFY  
→END



FREQUENCY WITH LARGE  $\omega_p$   
IS SOLUTION IN THIS CASE  
SOLUTION IS  $\omega_p^{(cur)}$

FIG.27B

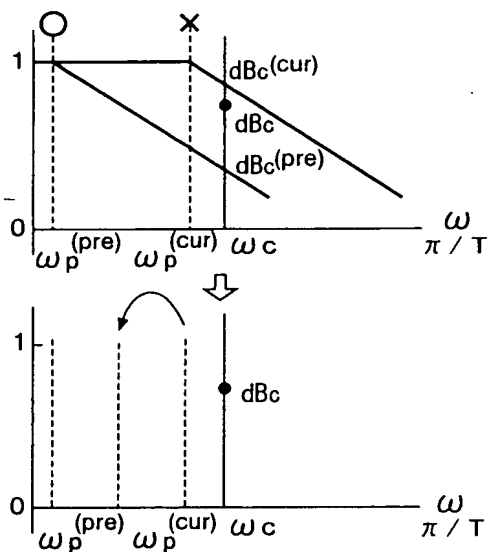
BOTH DO NOT SATISFY  
→NO SOLUTION→END



NO SOLUTION IN THE NUMBER OF TAPS  
IN THAT IT IS NOT PASSED THROUGH  
POINT  $(\omega_c, dB_c)$   
OF TRANSITION BAND

FIG.27C

ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.28A

ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP

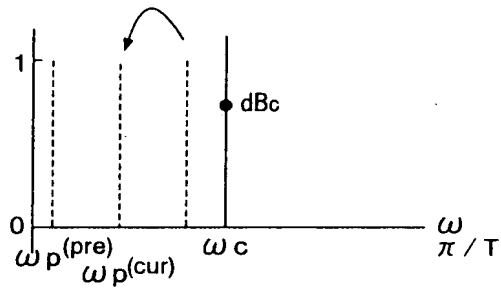
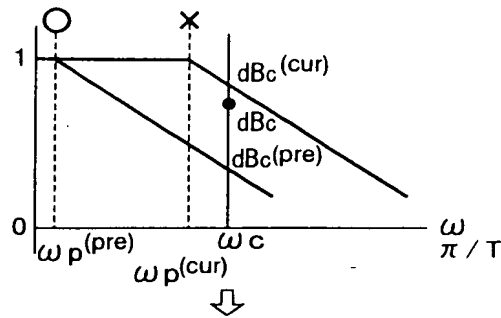
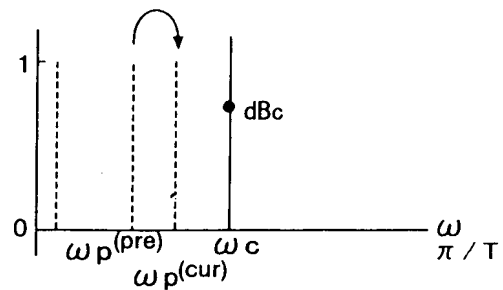
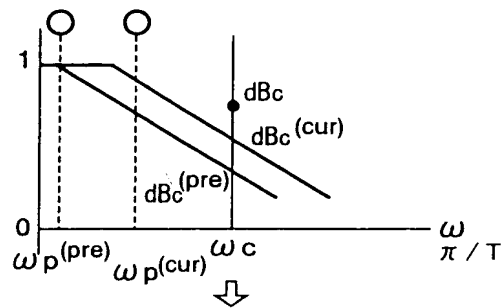


FIG.28B

BOTH SATISFY→FOR  
NEXT STEP

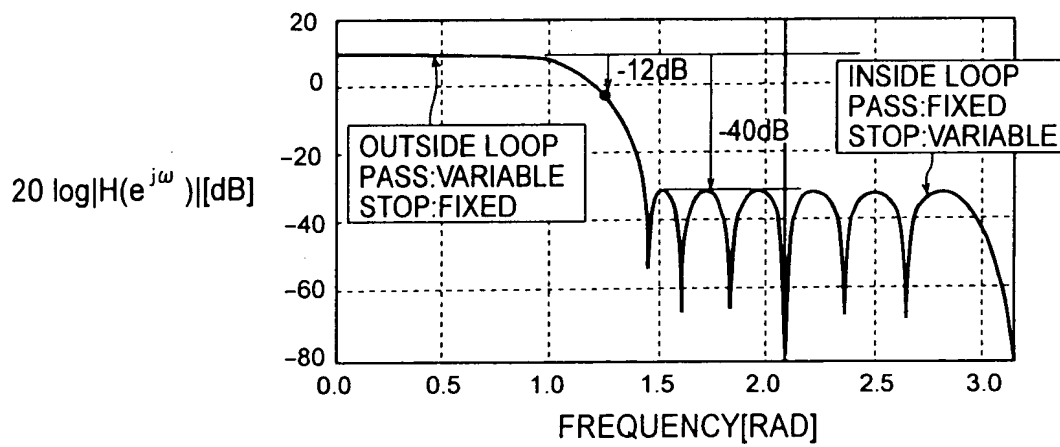






RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.29





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.30

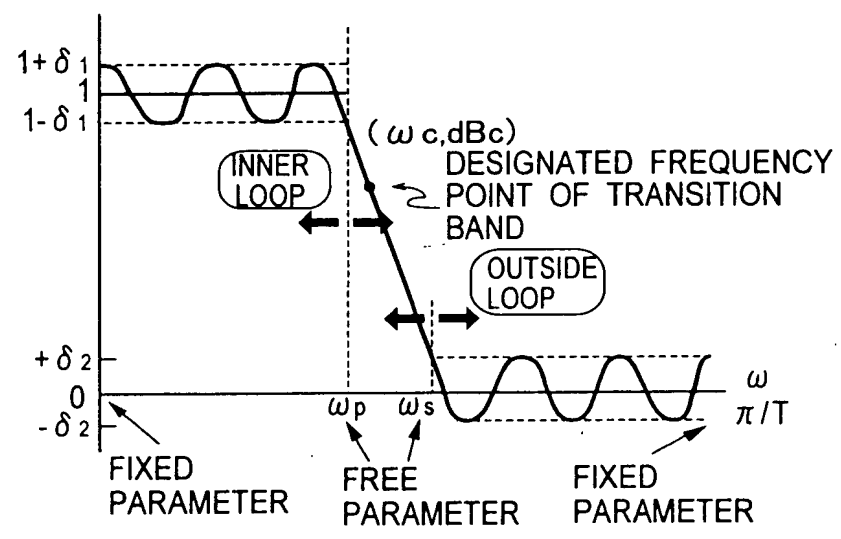
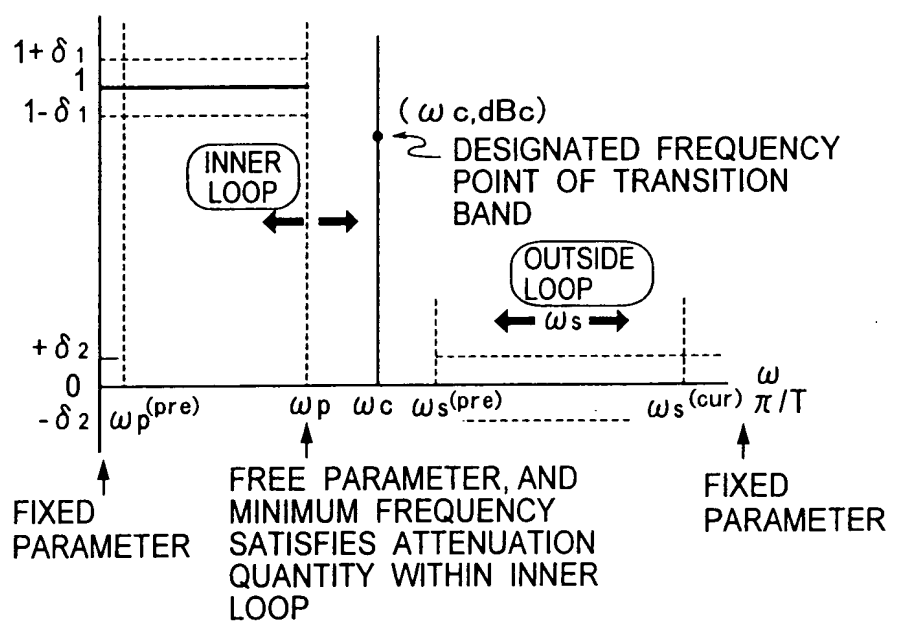


FIG.31





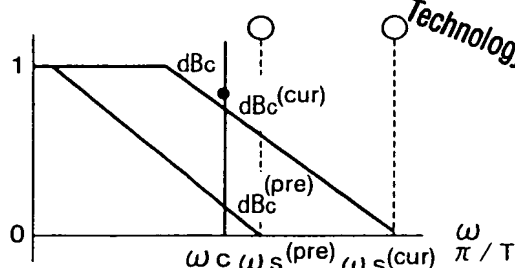
REPLACEMENT

RECEIVED  
NOV 03 2004

Technology Center 2100

FIG.32A

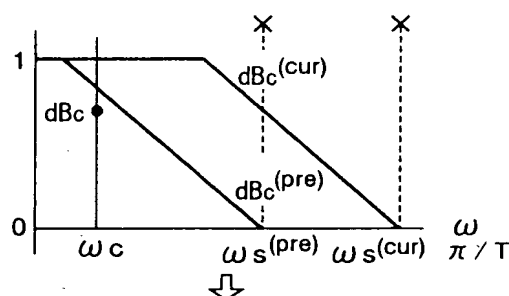
BOTH SATISFY  
→END



FREQUENCY WITH LARGE  $\omega_s$   
IS SOLUTION IN THIS CASE  
SOLUTION IS  $\omega_s(\text{cur})$

FIG.32B

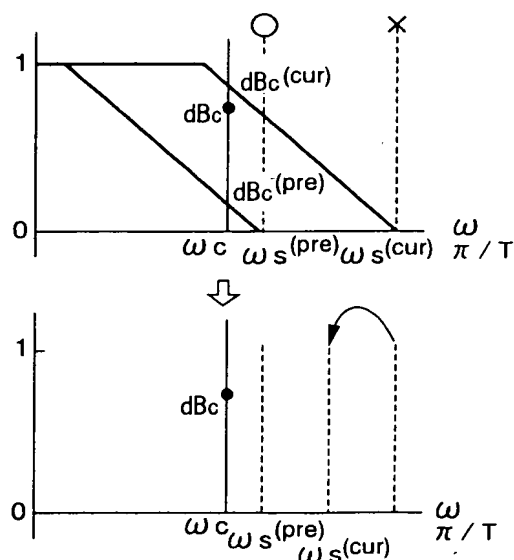
BOTH DO NOT SATISFY  
→NO SOLUTION→END



NO SOLUTION IN THE NUMBER  
OF TAPS IN THAT IT IS NOT  
PASSED THROUGH FREQUENCY  
OF TRANSITION BAND

FIG.32C

ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP

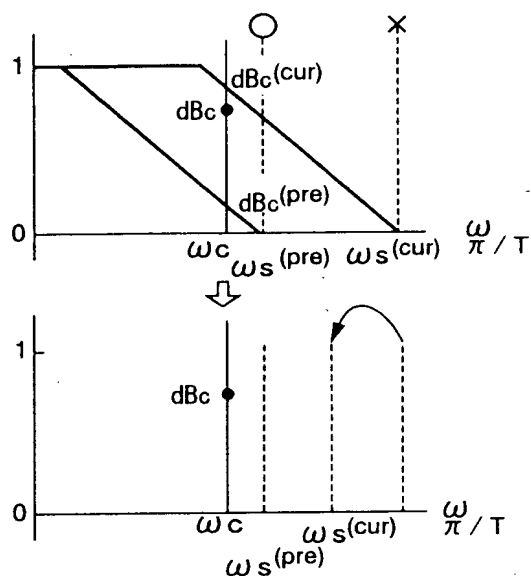




RECEIVED  
NOV 03 2004  
Technology Center 2100

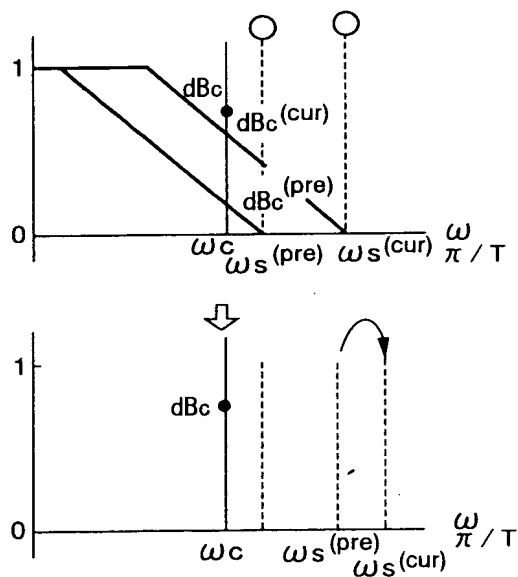
**FIG.33A**

ONLY ONE SIDE  
SATISFIES  
→FOR NEXT STEP



**FIG.33B**

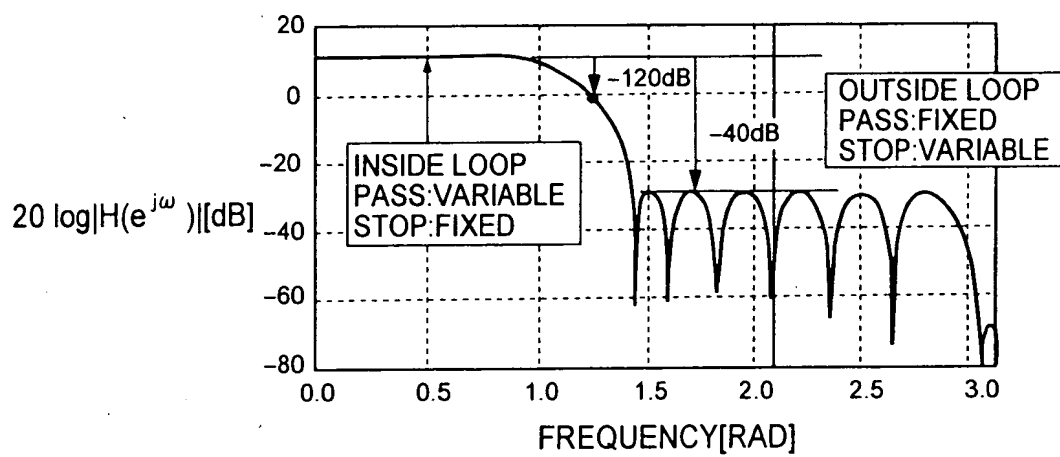
BOTH SATISFY  
→FOR NEXT STEP





RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.34

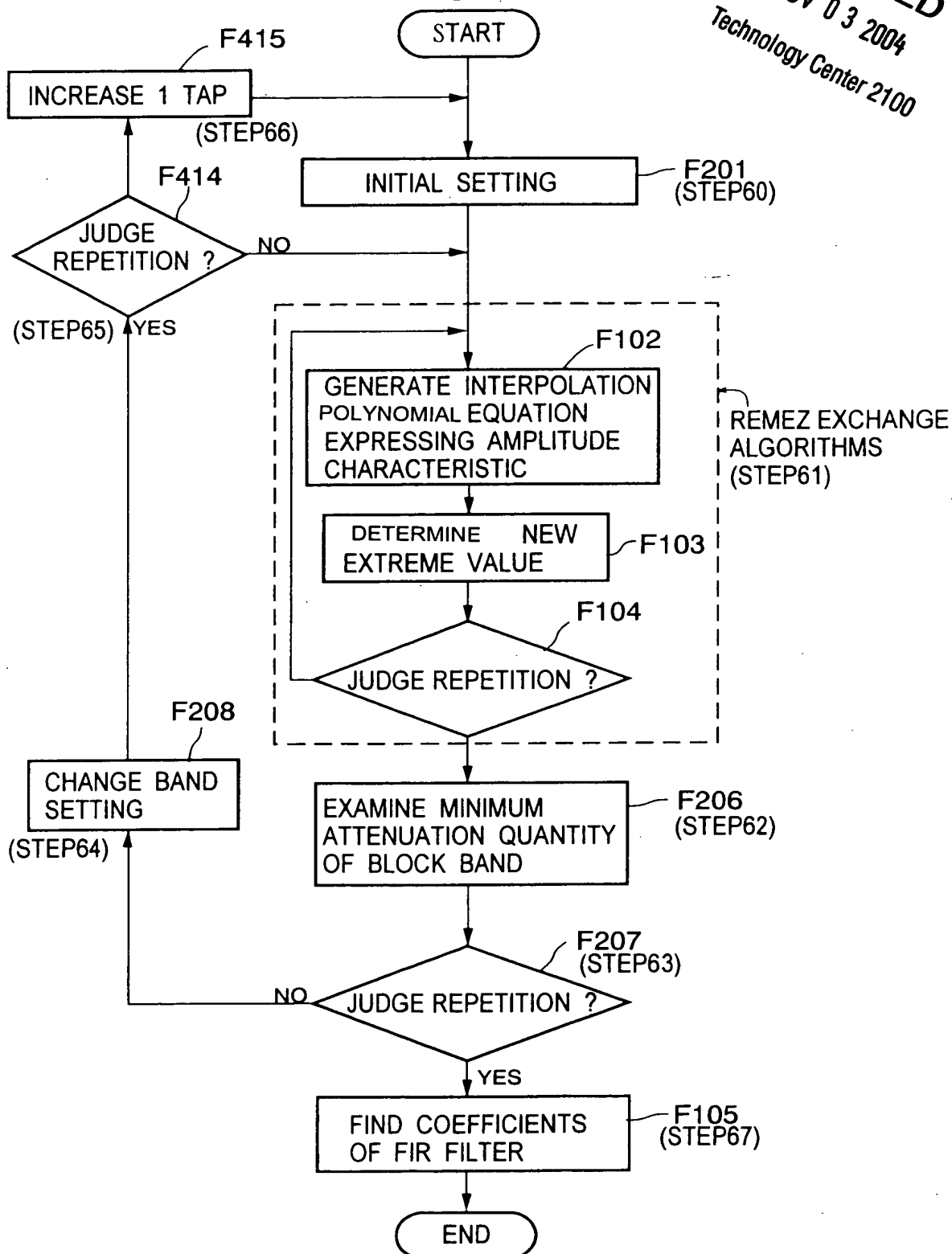




REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.35





REPLACEMENT

RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.36

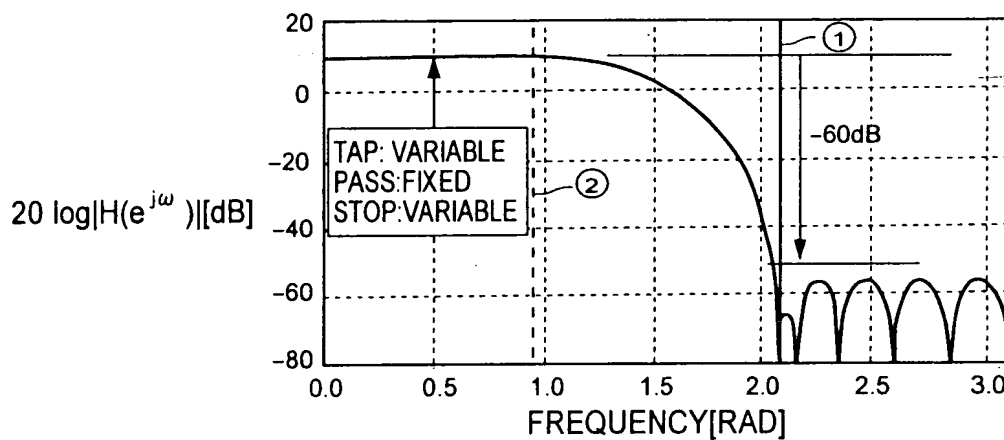


FIG.37

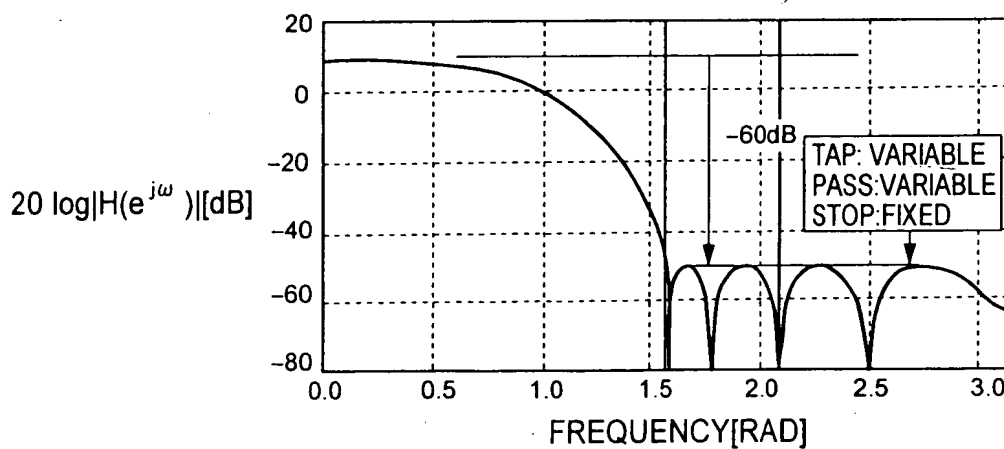
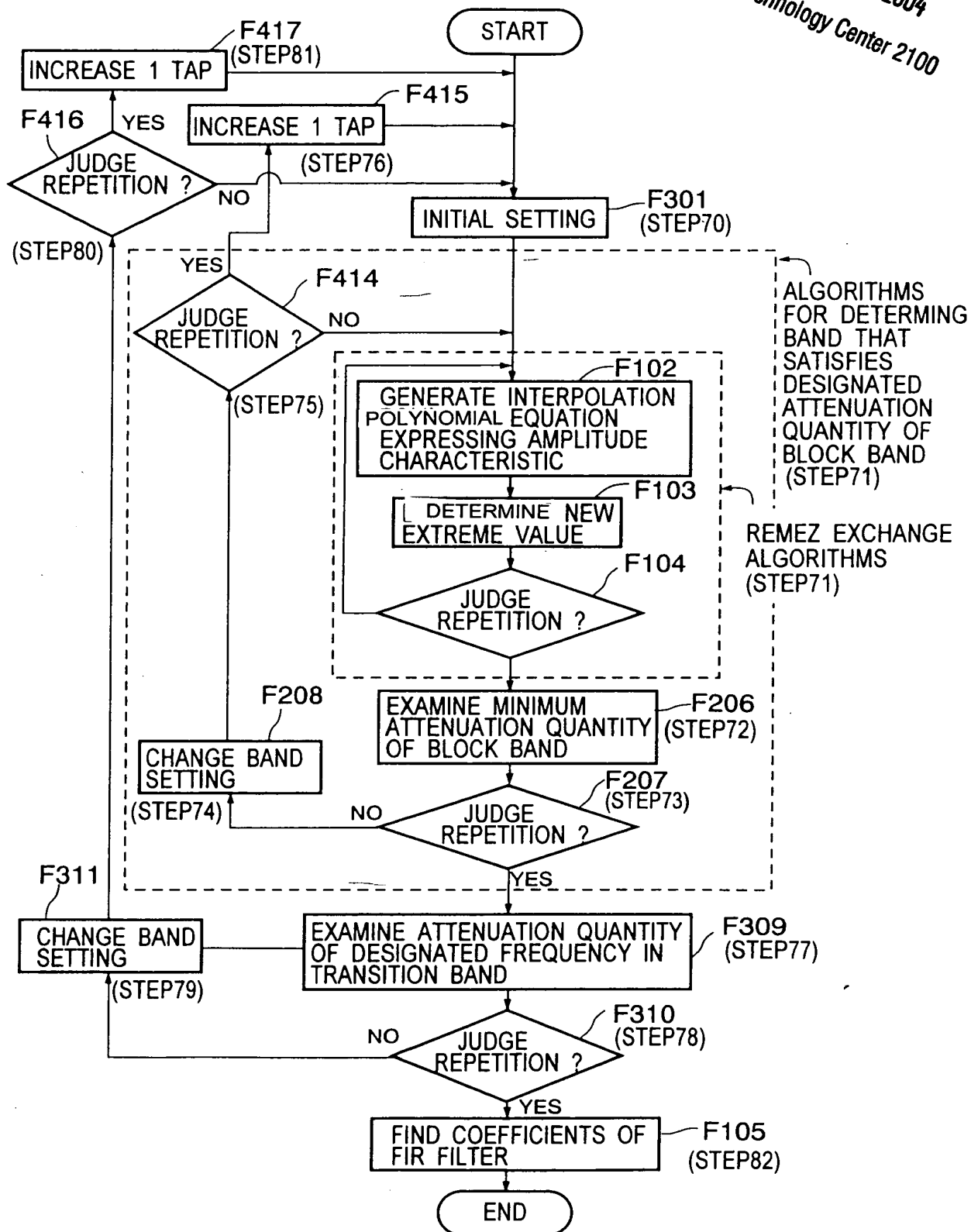


FIG.38

RECEIVED  
NOV 03 2004  
Technology Center 2100







RECEIVED  
NOV 03 2004  
Technology Center 2100

FIG.39

